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ABSTRACT

The National Council of Teachers of Mathematics (NCTM) Curriculum and Evaluation Standards puts great stress on the mathematical processes of problem solving, communication, reasoning, and making connections. NCTM standards also emphasize new and emerging content areas for middle school students such as algebra, data analysis, and probability. This book explores three content areas using mathematical processes advocated by the NCTM standards. Another major thrust of the standards captured in this document is the application of appropriate technology to problem solving activities. This book contains three modules. "Module 1: Algebra" focuses on patterns and relationships as vehicles for developing algebraic reasoning. "Module 2: Data" emphasizes making sense of data through organizing, displaying, and interpreting it in various ways. "Module 3: Probability" incorporates simulations and analyses to determine both experimental and theoretical probabilities associated with real-world problems. (ASK)

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